

# Mott Porous Metal Data Sheet

**Media Grade:** 0.2  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch of Hg 5.0 - 6.9  
 Minimum Tensile, kpsi --  
 Yield Strength, kpsi --  
 Young's Modulus, x 10<sup>6</sup> psi --

### Permeability Coefficient

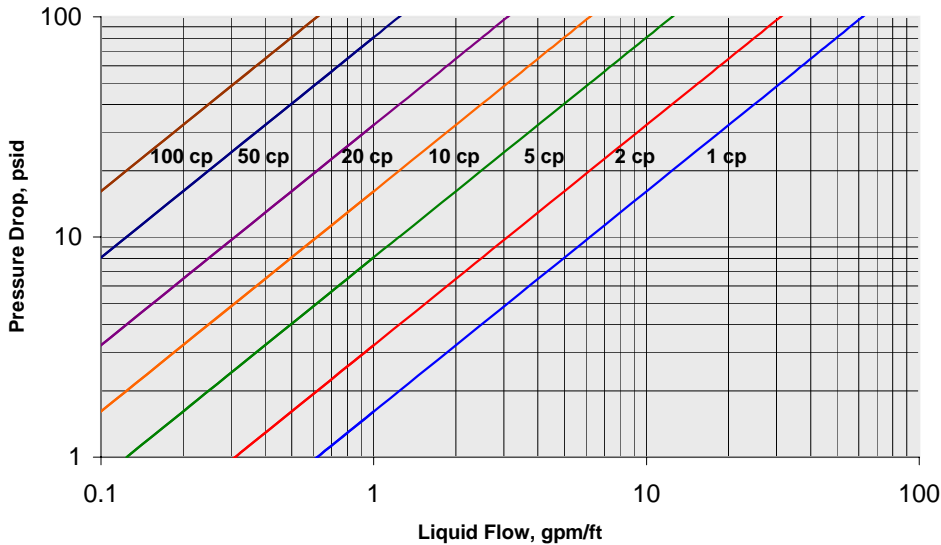
Liquid, K<sub>L</sub> 26  
 Gas, K<sub>G</sub> 600

**Liquid: Pressure Drop, psid =**  
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$   
**Gas: Pressure Drop, psid=**  
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

### Particle Removal Efficiency

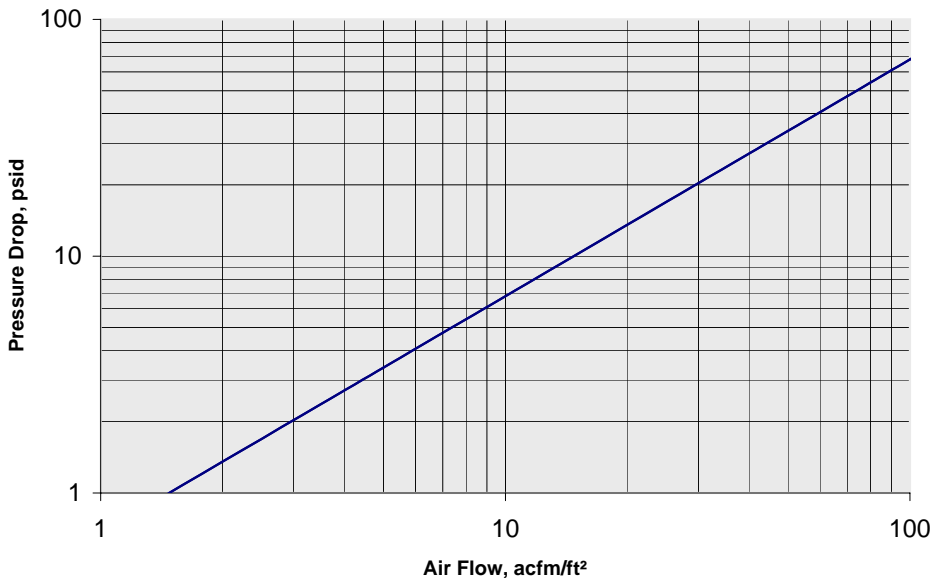
**Liquid Efficiency**      Tested per ASTM F795  
 90% at 0.4 μm      Tested at 1 gpm/ft<sup>2</sup>  
 99% at 0.8 μm  
 99.9% at 1.2 μm

**Air Efficiency**      Tested at flux of 6 acfm/ft<sup>2</sup>  
 >99.9% for all particle sizes



**Notes:**

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

**mott corporation**

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*Flow Characteristics on these data sheets are typical and should be used for general reference only.*

# Mott Porous Metal Data Sheet

Media Grade: 0.5  
 Type: Pressed Disc  
 Alloy: 316LSS  
 Thickness: 0.062 inches

Issued: 06/25/10

## Manufacturing Specifications

Bubble Point, inch of Hg 3.0 - 3.9  
 Minimum Tensile, kpsi 21.1  
 Yield Strength, kpsi 11.5  
 Young's Modulus, x 10<sup>6</sup> psi 8.3

## Permeability Coefficient

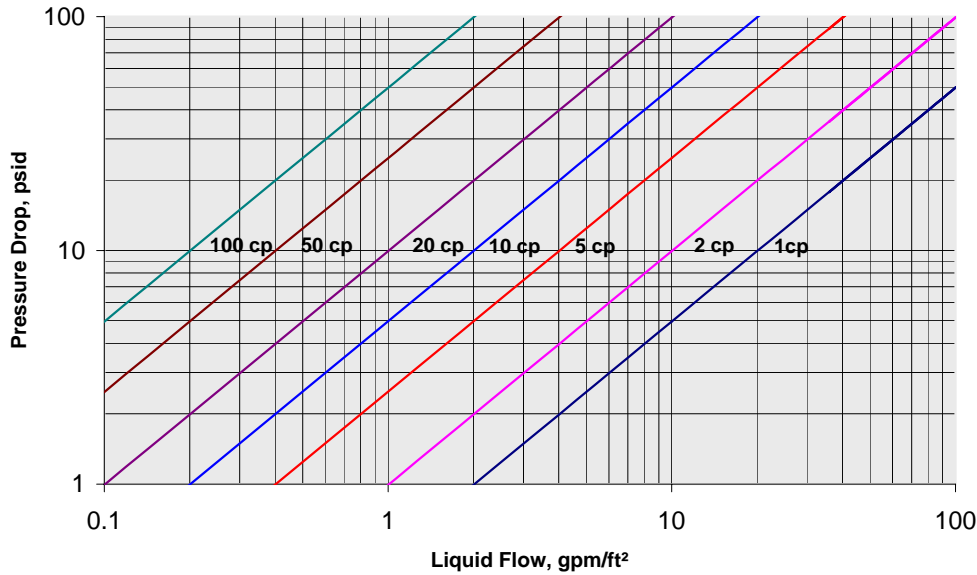
Liquid, K<sub>L</sub> 8.0  
 Gas, K<sub>G</sub> 190

**Liquid: Pressure Drop, psid =**  
 (K<sub>L</sub>)(Flux, gpm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)  
**Gas: Pressure Drop, psid =**  
 (K<sub>G</sub>)(Flux, acfm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)

## Particle Removal Efficiency

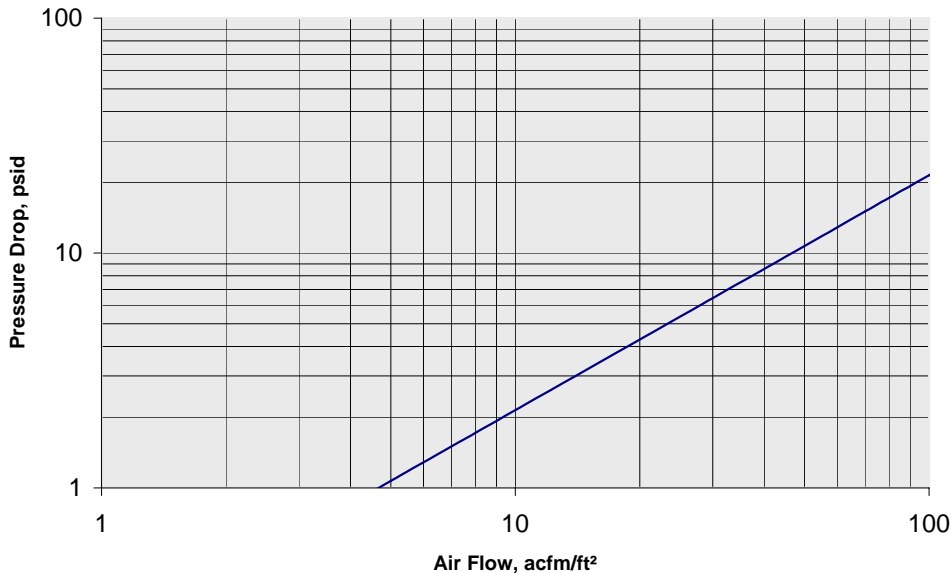
**Liquid Efficiency** Testing per ASTM F795  
 90% at 0.9 μm Tested at 1 gpm/ft<sup>2</sup>  
 99% at 1.6 μm  
 99.9% at 2 μm

**Air Efficiency** Tested at flux of 6 acfm/ft<sup>2</sup>  
 >90% for all particle sizes  
 >99% for all particle sizes  
 99.9% at 0.25 μm



### Notes:

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



### Notes:

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 2  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch water 17.0 - 24.0  
 Minimum Tensile, kpsi 12.8  
 Yield Strength, kpsi 7.2  
 Young's Modulus, x 10<sup>6</sup> psi 5.1

### Permeability Coefficient

Liquid, K<sub>L</sub> 1.5  
 Gas, K<sub>G</sub> 24

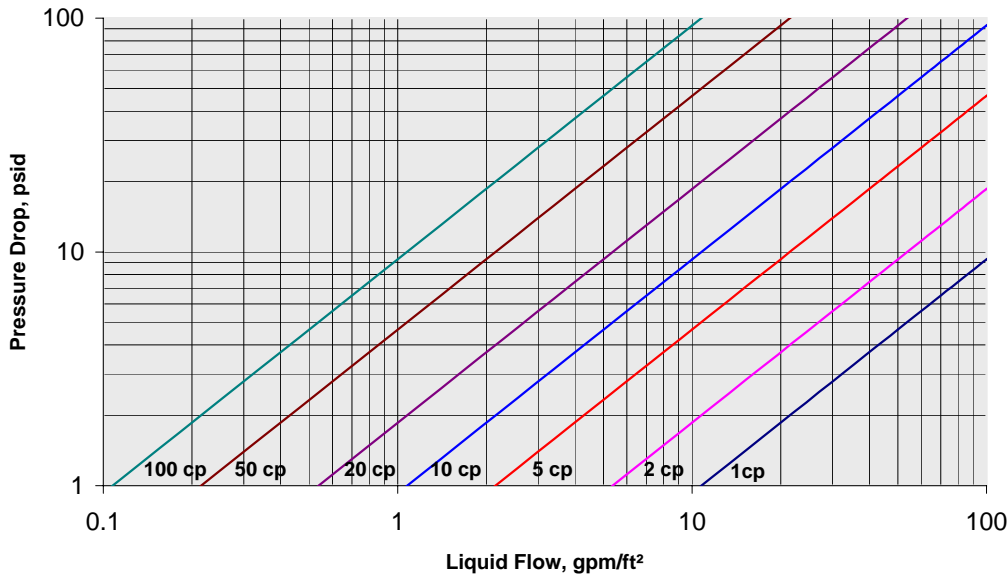
**Liquid: Pressure Drop, psid =**  
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$   
**Gas: Pressure Drop, psid =**  
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

### Particle Removal Efficiency

**Liquid Efficiency** Testing per ASTM F795  
 90% at 4 μm Tested at 1 gpm/ft<sup>2</sup>  
 99% at 5.5 μm  
 99.9% at 9 μm

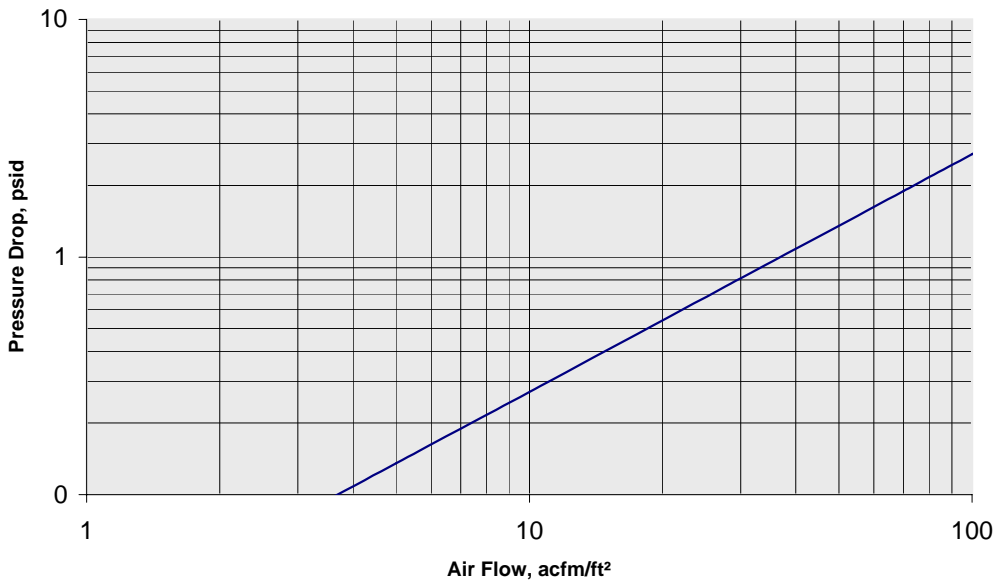
### Air Efficiency

Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 0.3 μm  
 99% at 0.6 μm  
 99.9% at 2 μm



**Notes:**

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 5  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches

**Issued:** 06/25/10

### Manufacturing Specifications

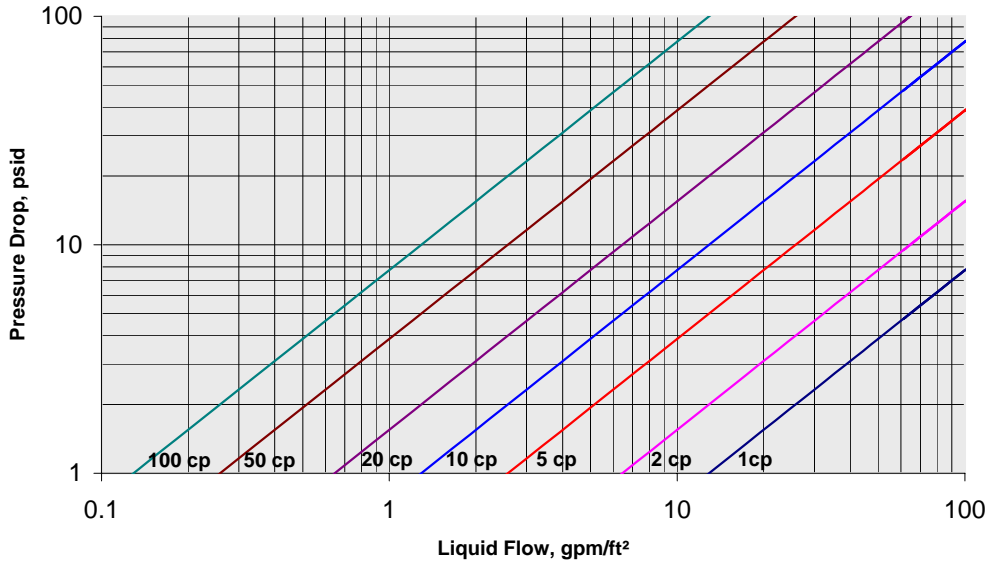
Bubble Point, inch water 13.0 - 16.9  
 Minimum Tensile, kpsi 9.5  
 Yield Strength, kpsi 6.8  
 Young's Modulus, x 10<sup>6</sup> psi 3.7

### Permeability Coefficient

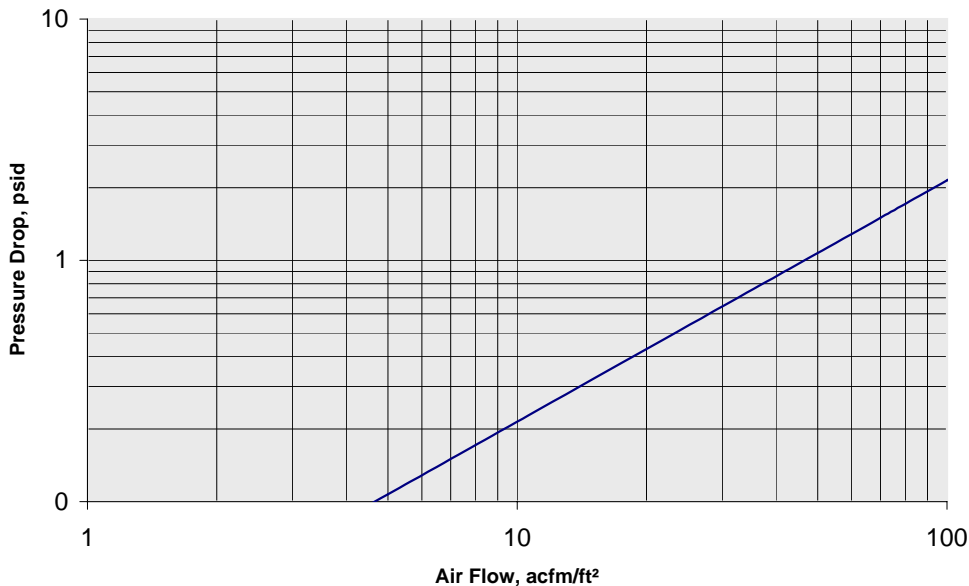
Liquid, K<sub>L</sub> 1.25  
 Gas, K<sub>G</sub> 19  
  
*Liquid: Pressure Drop, psid =*  
*(K<sub>L</sub>)(Flux, gpm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)*  
*Gas: Pressure Drop, psid =*  
*(K<sub>G</sub>)(Flux, acfm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)*

### Particle Removal Efficiency

**Liquid Efficiency** Testing per ASTM F795  
 Tested at 1 gpm/ft<sup>2</sup>  
 90% at 5 μm  
 99% at 8 μm  
 99.9% at 13 μm  
  
**Air Efficiency** Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 0.8 μm  
 99% at 2 μm  
 99.9% at 5 μm



**Notes:**  
 1 - Tests run at 70 °F  
 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**  
 1 - Tests run with air at 70 °F  
 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 10  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch water 7.5 - 10.9  
 Minimum Tensile, kpsi 5.0  
 Yield Strength, kpsi 3.7  
 Young's Modulus, x 10<sup>6</sup> psi 2.9

### Permeability Coefficient

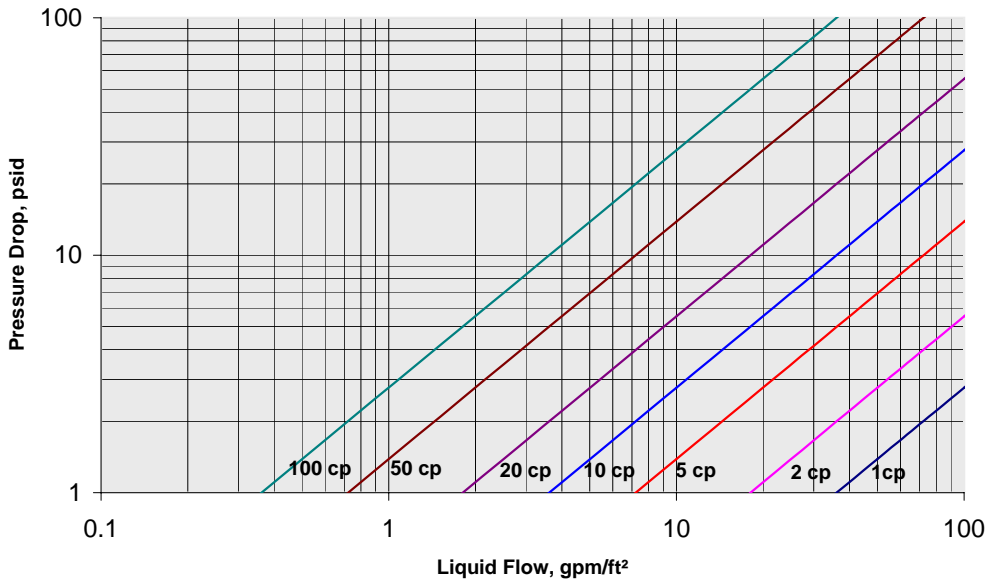
Liquid, K<sub>L</sub> 0.45  
 Gas, K<sub>G</sub> 8.7

**Liquid: Pressure Drop, psid =**  
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$   
**Gas: Pressure Drop, psid =**  
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

### Particle Removal Efficiency

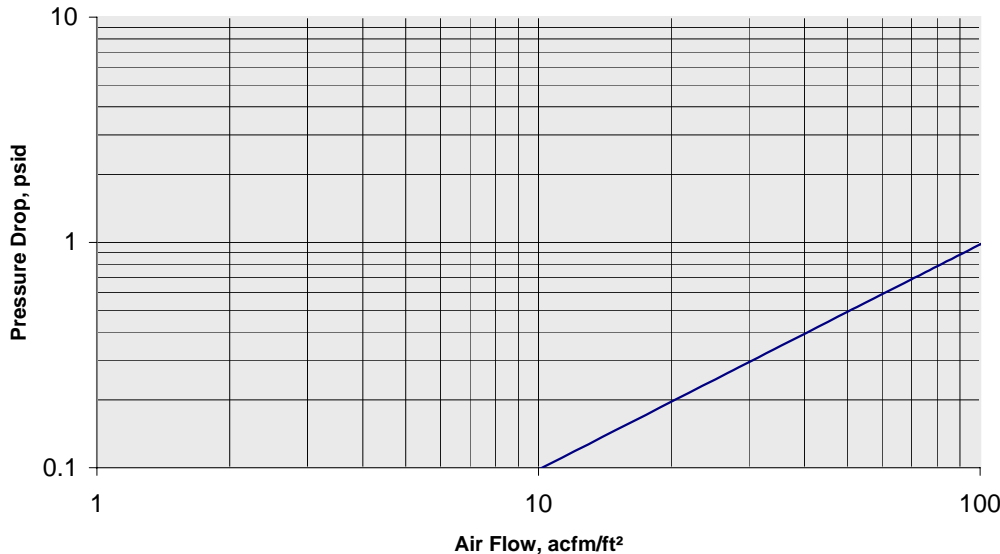
**Liquid Efficiency** Testing per ASTM F795  
 90% at 10 μm Tested at 1 gpm/ft<sup>2</sup>  
 99% at 15 μm  
 99.9% at 20 μm

**Air Efficiency** Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 4.5 μm  
 99% at 8 μm  
 99.9% at 13 μm



**Notes:**

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 20  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.062 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch water 5.0 - 7.0  
 Minimum Tensile, kpsi 4.5  
 Yield Strength, kpsi 2.9  
 Young's Modulus, x 10<sup>6</sup> psi 2.3

### Permeability Coefficient

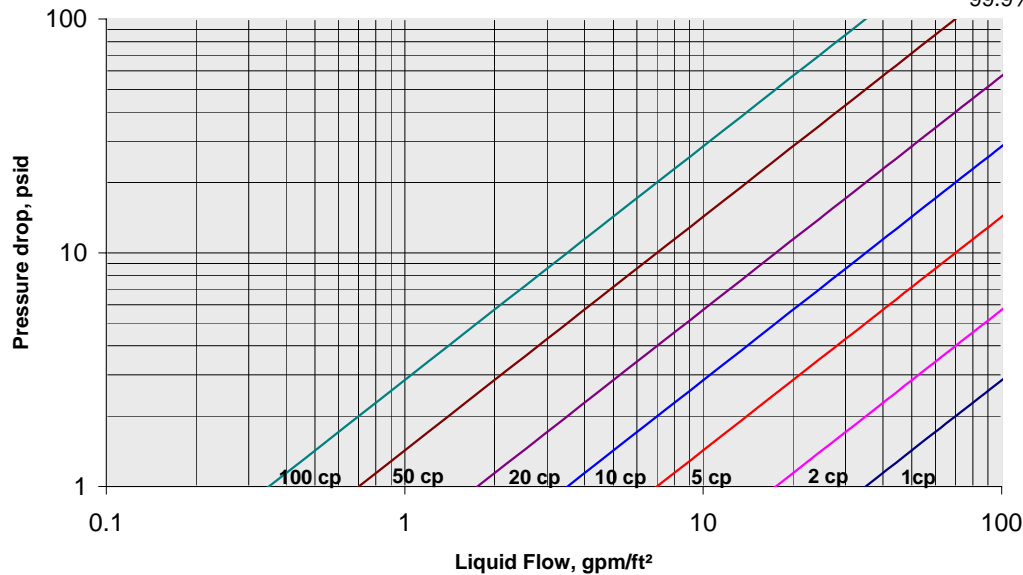
Liquid, K<sub>L</sub> 0.46  
 Gas, K<sub>G</sub> 7.6

**Liquid: Pressure Drop, psid =**  
 (K<sub>L</sub>)(Flux, gpm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)  
**Gas: Pressure Drop, psid =**  
 (K<sub>G</sub>)(Flux, acfm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)

### Particle Removal Efficiency

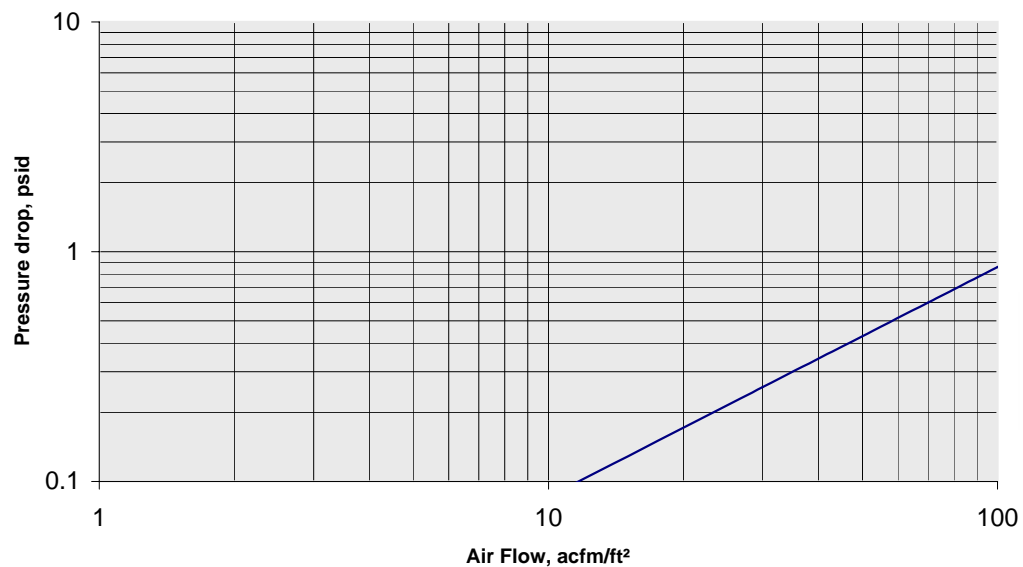
**Liquid Efficiency** Testing per ASTM F795  
 90% at 20 μm Tested at 1 gpm/ft<sup>2</sup>  
 99% at 25 μm  
 99.9% at 35 μm

**Air Efficiency** Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 8 μm  
 99% at 12 μm  
 99.9% at 20 μm



**Notes:**

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 40  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.078 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch water 3.0 - 4.0  
 Minimum Tensile, kpsi 3.1  
 Yield Strength, kpsi 2.2  
 Young's Modulus, x 10<sup>6</sup> psi 1.8

### Permeability Coefficient

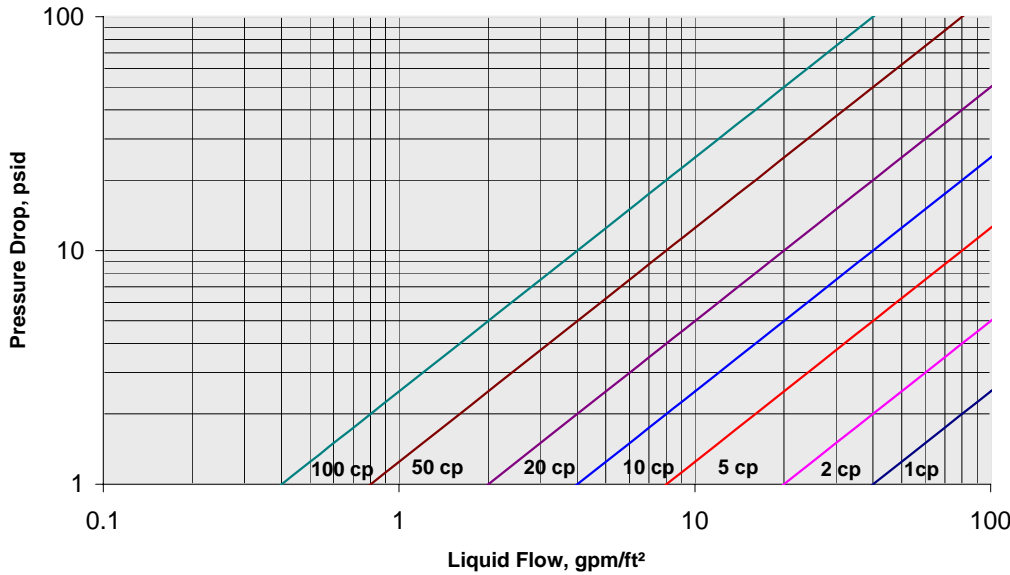
Liquid, K<sub>L</sub> 0.32  
 Gas, K<sub>G</sub> 3.3

**Liquid: Pressure Drop, psid =**  
 (K<sub>L</sub>)(Flux, gpm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)  
**Gas: Pressure Drop, psid=**  
 (K<sub>G</sub>)(Flux, acfm/ft<sup>2</sup>)(Visc, cp)(Thck, inch)

### Particle Removal Efficiency

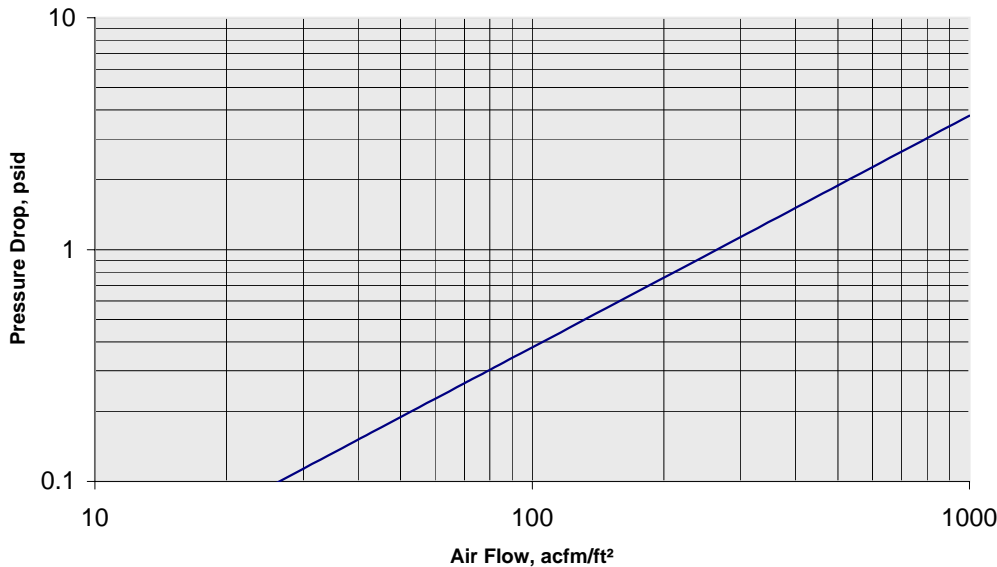
**Liquid Efficiency**      Testing per ASTM F795  
                                  Tested at 1 gpm/ft<sup>2</sup>  
 90% at 25 μm  
 99% at 35 μm  
 99.9% at 45 μm

**Air Efficiency**              Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 12 μm  
 99% at 25 μm  
 99.9% at 45 μm



**Notes:**

- 1 - Tests run at 70 °F
- 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**

- 1 - Tests run with air at 70 °F
- 2 - Tests run with upstream pressure exhausting to atmosphere

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# Mott Porous Metal Data Sheet

**Media Grade:** 100  
**Type:** Pressed Disc  
**Alloy:** 316LSS  
**Thickness:** 0.093 inches

**Issued:** 06/25/10

### Manufacturing Specifications

Bubble Point, inch water 0.5 - 1.5  
 Minimum Tensile, kpsi 1.1  
 Yield Strength, kpsi 0.9  
 Young's Modulus, x 10<sup>6</sup> psi 1.3

### Permeability Coefficient

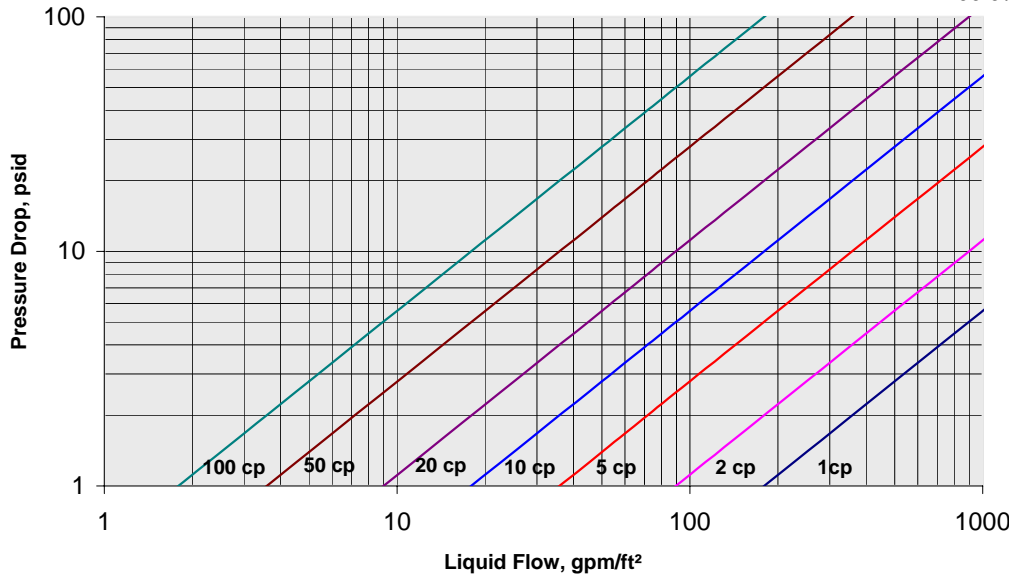
Liquid, K<sub>L</sub> 0.060  
 Gas, K<sub>G</sub> 0.75

**Liquid: Pressure Drop, psid =**  
 $(K_L)(\text{Flux, gpm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$   
**Gas: Pressure Drop, psid =**  
 $(K_G)(\text{Flux, acfm/ft}^2)(\text{Visc, cp})(\text{Thck, inch})$

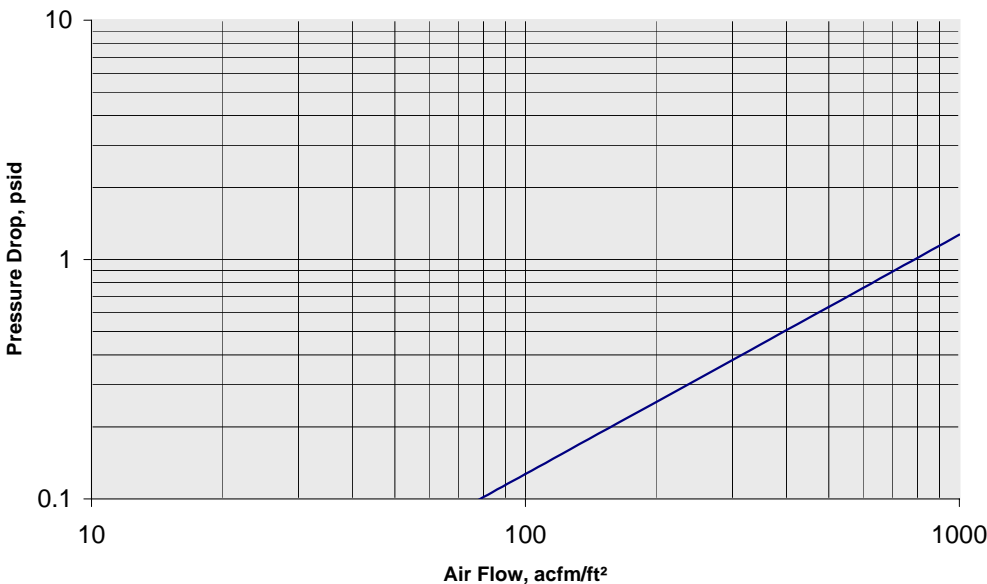
### Particle Removal Efficiency

**Liquid Efficiency** Testing per ASTM F795  
 90% at 50 μm Tested at 1 gpm/ft<sup>2</sup>  
 99% at 100 μm  
 99.9% at 150 μm

**Air Efficiency** Tested at flux of 6 acfm/ft<sup>2</sup>  
 90% at 20 μm  
 99% at 40 μm  
 99.9% at 100 μm



**Notes:**  
 1 - Tests run at 70 °F  
 2 - Tests run with water, other curves generated using Liquid Formula



**Notes:**  
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